

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1975:31774 CAPLUS Full-text
 DOCUMENT NUMBER: 82:31774
 TITLE: Polyesters
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 SOURCE: Jpn. Tokkyo Koho, 3 pp.
 CODEN: JAXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49006835	B	19740216	JP 1970-92575	19701021 <--
PRIORITY APPLN. INFO.:			JP 1970-92575	19701021

AB Dimethyl terephthalate (I) is transesterified with ethylene glycol (II), and the product is polycondensed in the presence of a II dispersion of Sb2O3 [1309-64-4] as catalyst to give white polyester [25038-59-9]. Thus, a mixture of 1 kg II, 50 g Sb2O3, and 5.0 g condensate of Na naphthalenesulfonate and HCHO was stirred at 35° for 2 hr, decanted, and allowed to stand for 24 hr to give a 4.26% Sb2O3 dispersion. A mixture of 7.76 kg I, 4.96 kg II, and 1.17 g Zn(OAc)2 was transesterified 5 hr at 120-230°, treated with 2.48 g Ph3PO3 and 48 ml Sb2O3 dispersion, and polycondensed 2 hr 35 min at 280°/0.5 mm to give a white polymer with intrinsic viscosity 0.72 (1:1 PhOH-C2H2Cl4,20°) and m.p.
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